Table 3
Switched Access Exogenous Cost Changes

	Exogenous Cost Changes	
	CL	TS
1984/85	\$0	<b>\$</b> 0
1985/86	\$11,989	(\$193,799)
1986/87	(\$84,844)	(\$239,915)
1988	(\$585,494)	(\$68,747)
1989	(\$49,731)	(\$210,351)
1990	(\$25,660)	(\$144,856)
1991	(\$205,092)	(\$290,651)
1992	(\$194,685)	(\$203,714)

Table 4
Switched Access Demand Data

	Unadjuste	WATS DA	
	CL	TS	Minutes
1984/85	183,602,357	183,108,361	23,462,547
1985/86	199,946,832	199,487,105	24,541,446
1986/87	198,878,262	226,888,173	28,515,202
1988	244,467,327	266,721,218	22,566,955
1989	279,513,375	295,439,187	16,732,120
1990	305,839,946	313,182,502	9,160,063
1991	326,675,691	330,060,199	5,693,207
1992	349,305,191	349,150,487	3,507,839

Chart PROD: Page 1 of 1

# TREND LINE REGRESSION COMPUTATION OF X FACTORS

Beginning trend line rates for CL/MOU and TS/MOU are computed in Chart TREND. On a historical basis we compute the X in the Balanced 50/50 CL PCI formula, the X in the TS PCI formula and the unitary X in the Balanced 50/50 CL PCI formula.

	CL	TS	Unitary
Historical Xs			
Balanced 50/50 CL PCI	2.96%	NA	2.67%
TS PCI	NA	3.44%	NA

4.25%

Chart DATA: Page 1 of 3

#### DATA USED IN REGRESSIONS

This chart presents the adjusted CL/MOU and TS/MOU rates as computed in Chart RATE. The Total Switched/MOU rates are the sums of the TS/MOU and CL/MOU rates. CL MOU/Line is computed as the CL MOU adjusted for exogenous stimulation computed in Chart RATE divided by the Subscriber Lines. The numbered columns on this chart correspond to the numbered regressions on Chart REG.

	(1)	(2)	(3)	(4)	
	CL/MOU	TS/MOU	ToTSW/MOU	CL MÒÚ/LINE	TREND
6/84-5/85	\$0.0391	\$0.0213	\$0.0604	1.3880	7
6/85-5/86	\$0.0429	\$0.0262	\$0.0691	1.3846	19
7/86-6/87	\$0.0458	\$0.0258	\$0.0716	1.4258	32
1988	\$0.0397	\$0.0263	\$0.0659	1.6036	50
4/89-12/89	\$0.0383	\$0.0262	\$0.0645	1.6891	63.5
1990	\$0.0366	\$0.0251	\$0.0617	1.7257	74
1991	\$0.0379	\$0.0253	\$0.0632	1.7366	86
1992	\$0.0376	\$0.0236	\$0.0612	1.8114	98
Log Trend Annual Growth	-1.78%	0.58%	-0.90%	4.03%	
Log Trend R-square	0.4132	0.0464	0.1624	0.9492	

< 5 <u>5</u> 5 €

Chart DATA: Page 2 of 3

#### DATA USED IN REGRESSIONS

This chart presents the adjusted CL and TS values for Revenue and MOU, as well as the Subscriber Lines.

	CL REV	CL MOU	TS REV	TS MOU	LINES
6/84-5/85	\$5,967,541	152,635,057	\$3,740,115	175,623,800	109,965,483
6/85-5/86	\$6,733,220	156,897,886	\$4,741,219	181,022,158	113,316,244
7/86-6/87	\$7,582,088	165,486,202	\$4,862,519	188,793,193	116,063,662
1988	\$7,740,057	195,080,628	\$5,591,500	212,838,842	121,654,374
4/89-12/89	\$8,117,457	212,142,675	\$5,875,300	224,229,912	125,595,961
1990	\$8,278,060	226,343,098	<b>\$</b> 5,818,548	231,777,107	131,160,067
1991	\$8,840,220	233,306,168	\$5,970,354	235,723,325	134,343,866
1992	\$9,369,062	249,310,072	<b>\$</b> 5,892,639	249,199,654	137,634,286

Chart DATA: Page 3 of 3

#### DATA USED IN REGRESSIONS

This chart presents the GNP-PI data used in the calculations. The source is the Survey of Current Business for the months shown.

	GNP-PI	Survey of Current	Business Issue
4Q/83	227.6	2/85	Table 7.2
4Q/84	237.1	2/85	Table 7.2
4Q/84	110	2/86	Table 7.1
4Q/85	113.8	2/86	Table 7.1
2Q/86	114.7	9/87	Table 7.1
2Q/87	118.6	9/87	Table 7.1
3Q/87	119.7	12/88	<b>Table 7.1</b>
3Q/88	124.9	12/88	Table 7.1
2Q/88	123.3	9/89	Table 7.1
2Q/89	129.3	9/89	Table 7.1
4Q/89	131.2	3/91	<b>Table 7.1</b>
4Q/90	137.5	3/91	Table 7.1
4Q/90	114.8	3/92	Table 7.3
4Q/91	118.7	3/92	Table 7.3

Chart REG: Page 1 of 1

#### LOGARITHMIC TREND REGRESSIONS

This chart presents the regression results of logarithmic time trend regressions on the CL/MOU rate, the TS/MOU rate, the Total Switched/ MOU rate and the CL MOU/Line data presented in Chart DATA. The numbering of the regression output on this chart corresponds to the numbering of the columns on Chart DATA.

(1)	CL/MOU, 1984-1992 Regression O	utput:	
	Constant Std Err of Y Est R Squared No. of Observations Degrees of Freedom		0 0.0626 0.4132 8 6
	X Coefficient(s) Std Err of Coef.	-0.0015 0.0007	-3.1479 0.0449
(2)	TS/MOU, 1984-1992 Regression O	utput:	
	Constant Std Err of Y Est R Squared No. of Observations Degrees of Freedom		0 0.0763 0.0464 8 6
	X Coefficient(s) Std Err of Coef.	0.0005 0. <u></u> 0009	-3.7179 0.0548
(3)	TotSw/MOU, 1984-1992 Regression O	utput:	
	Constant Std Err of Y Est R Squared No. of Observations Degrees of Freedom		0 0.0597 0.1624 8 6
	X Coefficient(s) Std Err of Coef.	-0.0007 0.0007	-2.6994 0.0428
(4)	CL MOU/LINE, 1984-1992 Regression O		
	Constant Std Err of Y Est R Squared No. of Observations Degrees of Freedom		0 0.0268 0.9492 8 6
	X Coefficient(s) Std Err of Coef.	0.0033 0.0003	0.2849 0.0192

Chart TREND: Page 1 of 1

#### TREND LINE ESTIMATES OF ACCESS RATES AND DEMAND

This chart presents the trend line estimates of the CL/MOU, TS/MOU and Total Switched/MOU rates and the trend line estimate of CL MOU/Line, using the regression output from Chart REG.

	CL/MOU	TS/MOU	ToTSW/MOU	CL MOU/LINE
6/84-5/85	\$0.0425	\$0.0244	\$0.0669	1.3607
6/85-5/86	\$0.0417	\$0.0245	\$0.0663	1.4157
7/86-6/87	\$0.0409	\$0.0247	\$0.0657	1.4777
1988	\$0.0398	\$0.0249	\$0.0648	1.5681
4/89-12/89	\$0.0390	\$0.0250	\$0.0641	1.6395
1990	\$0.0384	\$0.0252	\$0.0636	1.6973
1991	\$0.0378	\$0.0253	\$0.0631	1.7658
1992	\$0.0371	\$0.0255	\$0.0625	1.8371

Chart RATE: Page 1 of 40

# Computation of Adjusted 1992 Common Line /MOU Rate

1992 Common Line	11.25%	
	<b>60</b> 404 400	A a nama wa d
Access Rev (CL)	\$9,481,498 \$4,888,748	As reported
Net Return	\$1,800,749 \$46,765,600	As reported
ANI	\$16,765,602	As reported
FIT/SLIT	0.593983	As reported
ROR	10.74%	Net Return / ANI
Net Return at 11.25%	\$1,886,130	11.25% * ANI
Earnings above 11.25%	(\$85,381)	
Revenue above 11.25%		(1+FIT/SLIT) * Earnings above 11.25%
CL Rev at 11.25%	\$9,617,594	Access Rev (CL) - Revenue above 11.25%
Inside Wire	\$246,812	As reported
IW ANI	\$211,853	As reported
IW Excess Rev	(\$1,720)	•
IW at 11.25%	\$248,532	Inside Wire - IW Excess Rev
CPE	\$0	As reported
CPE ANI	\$0	As reported
CPE Excess Rev	\$0	(CPE ANI / ANI) * Revenue above 11.25%
CPE at 11.25%	\$0	CPE - CPE Excess Rev
CL less IW & CPE change		
at 11.25%	\$9,369,062	CL Rev at 11.25% - IW at 11.25% - CPE at 11.25%
COE Cat 3 - Dems	\$ <b>0</b>	•
COE Cat 3 - Dems	Ψ0	
less CPE and IW	\$0	
1633 OFL allu 144	40	
COE Cat 4 - Terms	\$0	
COE Cat 4 - Terms		
less CPE and IW	\$0	
Acct 662	\$0	
Acct 662		
less CPE and IW	\$0	
Acct 645	\$0	
Acct 645	* -	
less CPE and IW	\$0	
SPF Phase-Down	\$0	
SPF Phase-Down	₩0	
less CPE and IW	\$0	

Conformance	\$0	
Conformance less CPE and IW	\$0	
High Cost Fund	\$0	
Inside Wire Amortization	\$0	
CPE Phasedown	\$0	
WATS DA: 1986-7	\$0	
Reserve Def Amort	\$0	
Tax Reform Tax Reform	\$0	
less CPE and IW	\$0	
FASB 87 FASB 87	\$0	
less CPE and IW	\$0	
Deferred Tax Deferred Tax	\$0	•
less CPE and IW	\$0	
Other Other	\$0	
less CPE and IW	<b>\$0</b> .	***
Total Cum Exog Cost less CPE and IW	\$0	
CL Rev Adj for	<b>\$0.260.062</b>	
Exo Changes	\$9,369,062	
Prem MOU Non-Prem MOU	345,060,714 4,244,477	•
Total MOU	349,305,191	•
WATS DA Tot MOU less WATS DA	NA 349,305,191	
Total Stim MOU =	99,995,119	
Total MOU Adj for		
Incl of Stim	249,310,072	
Subscriber Lines	137,634,286	As reported

Chart RATE: Page 3 of 40

CL/MOU Rate Adj for Exo Changes	\$0.0376	CL Rev Adj / Total MOU Adj
CL/MOU Rate Unadj -	\$0.0271	Access Rev (CL) / Total MOU
CL/Loop Rate Adj for Exo Changes	<b>\$</b> 68.07	CL Rev Adj / Subscriber Lines
CL/Loop Rate Unadj	\$68.89	Access Rev (CL) / Subscriber Lines

Chart RATE: Page 4 of 40

### Computation of Adjusted 1991 Common Line /MOU Rate

1991 Common Line		
20111112112		
Access Rev (CL)	\$9,395,161	
Net Return	\$1,833,493	
ANI	\$16,703,224	
FIT/SLIT	0.574498	
ROR	10.98%	
Net Return at 11.25%	\$1,879,113	
Earnings above 11.25%	(\$45,620)	
Revenue above 11.25%	(\$71,828)	
CL Rev at 11.25%	\$9,466,989	
Inside Wire	\$434,598	
IW ANI	\$357,382	
IW Excess Rev	(\$1,537)	
IW at 11.25%	\$436,135	
CPE	\$0	
CPE ANI	\$0	
CPE Excess Rev	\$0	
CPE at 11.25%	\$0	
CL loss IM/ 9 CDE abones		
CL less IW & CPE change at 11.25%	<b>£</b> 0.020.054	
at 11.25%	\$9,030,854	
COE Cat 3 - Dems	\$7,766	Àll exogenous changes except the HCF are
COE Cat 3 - Dems	V. J	cumulated for all later years. Thus, the effect in
less CPE and IW	\$7,408	1991 is the amount reported for 1992. The effect
	• • •	in 1990 will be the sum of the 1992 and 1991
COE Cat 4 - Terms	NA	amounts, and so on. This adjusts exogenous
COE Cat 4 - Terms		changes to 1992 levels.
less CPE and IW	\$0	The High Cost Fund, conversely, is cumulated
		over all previous years. Thus, the 1988 amount
Acct 662	NA	is the sum of the reported 1984/85, 1985/86,
Acct 662		1986/87 and 1988 amounts. This amount is
less CPE and IW	\$0	subtracted from CL revenue because, beginning
		in 1989, HCF is no longer recovered in the CCL
Acct 645	NA	rate. The HCF is not removed after 1988 for
Acct 645		this reason.
less CPE and IW	\$0	All exogenous changes except HCF and RDA
SPF Phase-Down	(\$119,847)	are recast to remove the portion of the exogenous change reflected in the CPE and IW
SPF Phase-Down	(+ : : 0,0 )	categories.
less CPE and IW	(\$114,325)	
	(+,===)	

Conformance	NA	
Conformance less CPE and IW	\$0	
High Cost Fund	\$0	
Inside Wire Amortization	NA	
CPE Phasedown	NA	
WATS DA: 1986-7	NA	
Reserve Def Amort	(\$106,762)	
Tax Reform Tax Reform less CPE and IW	NA \$0	
FASB 87	NA	
FASB 87 less CPE and IW	\$0	
Deferred Tax Deferred Tax	\$17,641	
less CPE and IW	\$16,828	
Other Other	\$6,517	
less CPE and IW	\$6,217	· <b>,</b>
Total Cum Exog Cost less CPE and IW	(\$190,634)	
CL Rev Adj for	<b>6</b> 0 940 220	
Exo Changes	\$8,840,220	
Prem MOU	321,070,176	
Non-Prem MOU	5,605,515	
Total MOU WATS DA	326,675,691	
Tot MOU less WATS DA	NA 326,675,691	
Total Stim MOU =	- · · · · · · · · · · · · · · · · · · ·	CL and TS rates are computed as average
Total Outil MOO	00,000,020	revenue per minute of use. Each revenue adjustment (e.g., SLC, Exog) alters the actual rate charged during the period and thus brings about a
Total MOU Adj for Incl of Stim	233,306,168	demand stimulation effect.
Subscriber Lines	134,343,866	

Chart RATE: Page 6 of 40

CL/MOU Rate Adj for Exo Changes	\$0.0379
CL/MOU Rate Unadj ~	\$0.0288
CL/Loop Rate Adj for Exo Changes	\$65.80
CL/Loop Rate Unadj	\$69.93

Chart RATE: Page 7 of 40

## Computation of Adjusted 1990 Common Line /MOU Rate

1	990	)

Common Line -

Access Rev (CL) Net Return ANI FIT/SLIT ROR Net Return at 11.25% Earnings above 11.25% Revenue above 11.25% CL Rev at 11.25%	\$9,568,617 \$1,845,875 \$16,511,598 0.557129 11.18% \$1,857,555 (\$11,680) (\$18,187) \$9,586,804
Inside Wire IW ANI IW Excess Rev IW at 11.25%	\$925,192 \$697,707 (\$768) \$925,961
CPE CPE ANI CPE Excess Rev CPE at 11.25%	\$0 \$0 \$0 \$0
CL less IW & CPE change at 11.25%	\$8,660,843
COE Cat 3 - Dems COE Cat 3 - Dems less CPE and IW	\$20,640 \$18,646
COE Cat 4 - Terms COE Cat 4 - Terms less CPE and IW	\$0 \$0
Acct 662 Acct 662 less CPE and IW	<b>\$</b> 0 <b>\$</b> 0
Acct 645 Acct 645	\$0 \$0
less CPE and IW  SPF Phase-Down  SPF Phase-Down	(\$238,599)
less CPE and IW	(\$215,553)

Conformance	ΦU
less CPE and IW	\$0
High Cost Fund	\$0
Inside Wire Amortization	\$0
CPE Phasedown	\$0
WATS DA: 1986-7	\$0
Reserve Def Amort	(\$223,829)
Tax Reform	\$0
Tax Reform less CPE and IW	\$0
FASB 87	\$0
FASB 87	20
less CPE and IW	\$0
Deferred Tax	\$42,192
Deferred Tax	•
less CPE and IW	\$38,117
Other	(\$181)
Other less CPE and IW	(\$16A)
1635 CPE dilu IVV	(\$164)
Total Cum Exog Cost	(4444 744)
less CPE and IW	(\$382,783)
CL Rev Adj for	
Exo Changes	\$8,278,060
Prem MOU	298,909,557
Non-Prem MOU	6,930,389
Total MOU	305,839,946
WATS DA	NA
Tot MOU less WATS DA  Total Stim MOU =	305,839,946 79,496,848
Total Still MICC -	19,490,040
Total MOU Adj for	
Incl of Stim	226,343,098
Oubanibas Lincs	424 460 067
Subscriber Lines	131,160,067

\$0

Conformance

Chart RATE: Page 9 of 40

CL/MOU Rate Adj for Exo Changes	\$0.0366
CL/MOU Rate Unadj -	\$0.0313
CL/Loop Rate Adj for Exo Changes	\$63.11
CL/Loop Rate Unadi	\$72.95

# Computation of Adjusted 1989 Common Line /MOU Rate

1303
1303

Common Line -

Access Rev (CL) Net Return ANI FIT/SLIT ROR Net Return at 11.25% Earnings above 11.25% Revenue above 11.25% CL Rev at 11.25%	\$9,807,040 \$1,912,525 \$16,486,864 0.557691 11.60% \$1,854,772 \$57,753 \$89,962 \$9,717,079
Inside Wire IW ANI IW Excess Rev IW at 11.25%	\$1,212,150 \$718,827 \$3,922 \$1,208,228
CPE CPE ANI CPE Excess Rev CPE at 11.25%	\$0 \$0 \$0 \$0
CL less IW & CPE change at 11.25%	\$8,508,851
COE Cat 3 - Dems COE Cat 3 - Dems less CPE and IW	\$32,688 \$28,624
COE Cat 4 - Terms COE Cat 4 - Terms less CPE and IW	\$0 \$0
Acct 662 Acct 662 less CPE and IW	\$0 \$0
Acct 645 Acct 645 less CPE and IW	<b>\$</b> 0 <b>\$</b> 0
SPF Phase-Down SPF Phase-Down less CPE and IW	(\$350,097) (\$306,566)
1699 CLE SHO IAA	(4300,300)

Conformance Conformance	\$0
less CPE and IW	\$0
High Cost Fund	\$0
Inside Wire Amortization	\$0
CPE Phasedown	\$0
WATS DA: 1986-7	\$0
Reserve Def Amort	(\$150,240)
Tax Reform Tax Reform less CPE and IW	\$0 \$0
FASB 87	\$0
FASB 87 less CPE and IW	\$0
Deferred Tax	\$42,192
Deferred Tax less CPE and IW	\$36,946
Other	(\$181)
Other less CPE and IW	(\$158)
Total Cum Exog Cost less CPE and IW	(\$391,394)
CL Rev Adj for Exo Changes	\$8,117,457
•	
Prem MOU Non-Prem MOU	271,726,626 7,786,749
Total MOU WATS DA	279,513,375 NA
Tot MOU less WATS DA	279,513,375
Total Stim MOU =	67,370,700
Total MOLL Adi for	
Total MOU Adj for Incl of Stim	212,142,675
Subscriber Lines	125,595,961

Chart RATE: Page 12 of 40

CL/MOU Rate Adj for Exo Changes	\$0.0383
CL/MOU Rate Unadj	\$0.0351
CL/Loop Rate Adj for Exo Changes	\$64.63

\$78.08

CL/Loop Rate Unadj

Chart RATE: Page 13 of 40

### Computation of Adjusted 1988 Common Line /MOU Rate

### 1988

Common Line

Access Rev (CL) Net Return ANI FIT/SLIT ROR Net Return at 11.25% Earnings above 11.25% Revenue above 11.25% CL Rev at 11.25%	\$10,012,595 \$2,030,613 \$16,589,979 0.515152 12.24% \$1,866,373 \$164,241 \$248,850 \$9,763,745
Inside Wire IW ANI IW Excess Rev IW at 11.25%	\$1,354,704 \$985,445 \$14,782 \$1,339,922
CPE CPE ANI CPE Excess Rev CPE at 11.25%	\$0 \$0 \$0 \$0
CL less IW & CPE change at 11.25%	\$8,423,823
COE Cat 3 - Dems	\$46,705
COE Cat 3 - Dems less CPE and IW	\$40,295
COE Cat 4 - Terms	\$9,072
COE Cat 4 - Terms less CPE and IW	\$7,827
Acct 662	(\$7,075)
Acct 662 less CPE and IW	(\$6,104)
Acct 645	\$0
Acct 645 less CPE and IW	\$0
SPF Phase-Down	(\$470,923)
SPF Phase-Down less CPE and IW	(\$406,296)

Conformance Conformance	\$0
less CPE and IW	\$0
High Cost Fund	\$205,301
Inside Wire Amortization	\$0
CPE Phasedown	\$0
WATS DA: 1986-7	\$0
Reserve Def Amort	(\$118,217)
Tax Reform Tax Reform	(\$37,341)
less CPE and IW	(\$32,217)
FASB 87 FASB 87	\$0
less CPE and IW	\$0
Deferred Tax Deferred Tax	<b>\$42</b> ,192
less CPE and IW	\$36,402
Other Other	(\$181)
less CPE and IW	(\$156)
Total Cum Exog Cost less CPE and IW	(\$683,766)
CL Rev Adj for Exo Changes	\$7,740,057
Prem MOU Non-Prem MOU	235,269,424 9,197,903
Total MOU WATS DA	244,467,327 NA
Tot MOU less WATS DA Total Stim MOU =	244,467,327 49,386,699
Total MOU Adj for Incl of Stim	195,080,628
Subscriber Lines	121,654,374

Chart RATE: Page 15 of 40

CL/MOU Rate Adj for Exo Changes	\$0.0397
CL/MOU Rate Unadj -	\$0.0410
CL/Loop Rate Adj for Exo Changes	<b>\$</b> 63.62
CL/Loop Rate Unadi	\$82.30

Chart RATE: Page 16 of 40

### Computation of Adjusted 7/86-6/87 Common Line /MOU Rate

### 7/86-6/87 Common Line

Access Rev (CL) Net Return ANI FIT/SLIT ROR Net Return at 11.25% Earnings above 11.25% Revenue above 11.25% CL Rev at 11.25%	\$10,213,735 \$2,066,210 \$17,655,505 0.665279 11.70% \$1,986,244 \$79,966 \$133,165 \$10,080,570
Inside Wire IW ANI IW Excess Rev IW at 11.25%	\$1,116,361 \$944,570 \$7,124 \$1,109,237
CPE CPE ANI CPE Excess Rev CPE at 11.25%	\$222,659 \$273,660 \$2,064 \$220,595
CL less IW & CPE change at 11.25%	\$8,750,738
COE Cat 3 - Dems COE Cat 3 - Dems less CPE and IW	\$54,732 \$47,511
COE Cat 4 - Terms COE Cat 4 - Terms less CPE and IW	\$11,997 \$10,414
Acct 662 Acct 662 less CPE and IW	(\$26,719) (\$23,195)
Acct 645 Acct 645 less CPE and IW	\$0 \$0
SPF Phase-Down	(\$643,161)
SPF Phase-Down less CPE and IW	(\$558,315)

Chart RATE: Page 17 of 40

Conformance Conformance less CPE and IW	(\$95,687)
	(\$83,064)
High Cost Fund -	\$89,309
Inside Wire Amortization	\$0
CPE Phasedown	\$0
WATS DA: 1986-7	\$0
Reserve Def Amort	(\$40,216)
Tax Reform	(\$490,948)
less CPE and IW	(\$426,182)
FASB 87	(\$49,261)
FASB 87 less CPE and IW	(\$42,762)
Deferred Tax Deferred Tax less CPE and IW	\$42,192
	\$36,626
Other	(\$181)
Other less CPE and IW	(\$157)
Total Cum Exog Cost less CPE and IW	(\$1,168,649)
CL Rev Adj for	, ,
Exo Changes	\$7,582,088
Prem MOU	186,034,212
Non-Prem MOU Total MOU	12,844,050 198,878,262
WATS DA	NA
Tot MOU less WATS DA  Total Stim MOU =	198,878,262 33,392,060
i otal otili Moo –	33,332,000
Total MOU Adj for	
Incl of Stim	165,486,202
Subscriber Lines	116,063,662